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    4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update
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                frequency
     5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02
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NEWS
     6 Mar 08 Gene Names now available in BIOSIS
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     7 Mar 22
                TOXLIT no longer available
    8 Mar 22
NEWS
                TRCTHERMO no longer available
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NEWS 16 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 19 Jun 03 New e-mail delivery for search results now available
NEWS 20 Jun 10 MEDLINE Reload
NEWS 21 Jun 10 PCTFULL has been reloaded
NEWS EXPRESS
             February 1 CURRENT WINDOWS VERSION IS V6.0d,
             CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
             AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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      2103086 (MANGANESE SUPEROXIDE DISMUTASE OR MNSOD OR CATALASE OR CAT OR
               ADCAT OR PHOSPHOLIPID GLUTATHIONE PEROXIDASE OR SOD?)
=> s l1 and (antisense and inhibit?)
          1329 L1 AND (ANTISENSE AND INHIBIT?)
=> s l1 and (antisense (5n) inhibit?)
           438 L1 AND (ANTISENSE (5N) INHIBIT?)
=> s 11 and (antisense (3n) (inhibit? or reduc?)
UNMATCHED LEFT PARENTHESIS 'AND (ANTISENSE'
The number of right parentheses in a query must be equal to the
number of left parentheses.
=> s 11 and (antisense (3n) (inhibit? or reduc?))
           425 L1 AND (ANTISENSE (3N) (INHIBIT? OR REDUC?))
L4
=> s 11 and (antisense (3n) (inhibit? or reduc?)) and (antisense (5n) (start codon)
UNMATCHED LEFT PARENTHESIS 'AND (ANTISENSE'
The number of right parentheses in a query must be equal to the
number of left parentheses.
=> s 11 and (antisense (3n) (inhibit? or reduc?)) and (antisense (5n) (start codon))
T.5
             O L1 AND (ANTISENSE (3N) (INHIBIT? OR REDUC?)) AND (ANTISENSE
               (5N) (START CODON))
=> s 14 and (start codon)
             4 L4 AND (START CODON)
L6
=> dup rem 16
PROCESSING COMPLETED FOR L6
              2 DUP REM L6 (2 DUPLICATES REMOVED)
L7
=> s (Oberley, L??au) or (waydert, C?/au) or (Smith, B?/au)
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'L??AU'
The truncation symbol ? may be used only at the end of a search
term. To specify a variable character within a word use '!', e.g.,
'wom!n' to search for both 'woman' and 'women'. Enter "HELP
TRUNCATION" at an arrow prompt (=>) for more information.
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=> FIL BIOSIS MEDLINE SCISEARCH CA

=> s (Oberley, L?/au) or (waydert, C?/au) or (Smith, B?/au)
L8 20146 (OBERLEY, L?/AU) OR (WAYDERT, C?/AU) OR (SMITH, B?/AU)

=> s 18 and (manganese superoxide dismutase or mnsod or catalase or cat or adcat or phospholipid glutathione peroxidase or sod?)

L9 919 L8 AND (MANGANESE SUPEROXIDE DISMUTASE OR MNSOD OR CATALASE OR CAT OR ADCAT OR PHOSPHOLIPID GLUTATHIONE PEROXIDASE OR SOD?)

=> s 19 and antisense

L10 21 L9 AND ANTISENSE

=> dup rem 110

PROCESSING COMPLETED FOR L10

L11 7 DUP REM L10 (14 DUPLICATES REMOVED)

=> d 17 ibib abs 1-2; d 111 1-7 ibib abs

L7 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1

ACCESSION NUMBER: 1998:429492 BIOSIS DOCUMENT NUMBER: PREV199800429492

TITLE: Na+/Ca2+ exchange in neonatal rat heart cells:

Antisense inhibition and protein

half-life.

AUTHOR(S): Slodzinski, Martin K.; Blaustein, Mordecai P. (1)

CORPORATE SOURCE: (1) Dep. Physiol., Univ. Md. Sch. Med., 655 W. Baltimore

St., Baltimore, MD 21201 USA

SOURCE: American Journal of Physiology, (Aug., 1998) Vol. 275, No.

2 PART 1, pp. C459-C467.

ISSN: 0002-9513.

DOCUMENT TYPE: Article LANGUAGE: English

Cardiac Na+/Ca2+ exchanger (NCX) protein half-life (t1/2) and antisense knockdown were studied in primary cultured neonatal rat cardiomyocytes. Protein t1/2 was determined using (35S)methionine with a pulse-chase protocol. The 35S signal in NCX was identified by immunoprecipitation and Western blotting. The t1/2 of NCX protein was 33 h. Low concentrations (0.5 muM) of chimeric, phosphorothioated antisense oligodeoxynucleotides (AS-oligos) targeted to the region around the start codon of NCX1 transcript were used to knock down NCX protein and activity. Control myocytes (no oligos or scrambled oligos for at least 4 days) exhibited spontaneous Ca2+ transients (measured with fura 2). The sustained ("diastolic") Ca2+ concentration in the cytosol ((Ca2+)cyt) of control cells was unaffected by cyclopiazonic acid (CPA) plus caffeine (Caf), which promote depletion of sarcoplasmic reticular Ca2+ stores, but (Ca2+)cyt rose in control cells when external Na+ was removed. In contrast, apprx60% of cells treated with AS-oligos for at least 4 days did not exhibit spontaneous Ca2+ transients or respond to Na+-free medium; however, CPA + Caf did induce a prolonged elevation in (Ca2+)cyt in these cells. In all cells, 50 mM K+ increased (Ca2+)cyt NCX protein was reduced by -50% in cells treated with AS-oligos for 7 days but was not reduced after only 2 days. These biochemical data are consistent with the physiological evidence of NCX knockdown in apprx60% of cells.

L7 ANSWER 2 OF 2 SCISEARCH COPYRIGHT 2002 ISI (R)

ACCESSION NUMBER: 1998:605903 SCISEARCH

THE GENUINE ARTICLE: 106WQ

TITLE: Na+/Ca2+ exchange in neonatal rat heart cells:

antisense inhibition and protein

half-life

AUTHOR: Slodzinski M K; Blaustein M P (Reprint)

CORPORATE SOURCE: UNIV MARYLAND, SCH MED, DEPT PHYSIOL, 655 W BALTIMORE ST,

BALTIMORE, MD 21201 (Reprint); UNIV MARYLAND, SCH MED,

DEPT PHYSIOL, BALTIMORE, MD 21201; UNIV MARYLAND, SCH MED, DEPT MED, BALTIMORE, MD 21201; UNIV MARYLAND, SCH MED, CTR

VASC BIOL & HYPERTENS, BALTIMORE, MD 21201

COUNTRY OF AUTHOR:

USA

SOURCE:

AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY, (AUG 1998)

Vol. 44, No. 2, pp. C459-C467.

Publisher: AMER PHYSIOLOGICAL SOC, 9650 ROCKVILLE PIKE,

BETHESDA, MD 20814. ISSN: 0363-6143.

DOCUMENT TYPE:

Article; Journal

FILE SEGMENT:

LIFE English

LANGUAGE:

REFERENCE COUNT:

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

Cardiac Na+/Ca2+ exchanger (NCX) protein half-life (t(1/2)) and antisense knockdown were studied in primary cultured neonatal rat cardiomyocytes. Protein t(1/2) was determined using [S-35] methionine with a pulse-chase protocol. The S-35 Signal in NCX was identified by immunoprecipitation and Western blotting. The t(1/2) of NCX protein was 33 h. Low concentrations (0.5 mu M) of chimeric, phosphorothioated antisense oligodeoxynucleotides (AS-oligos) targeted to the region around the start codon of NCX1 transcript were used to knock down NCX protein and activity. Control myocytes (no oligos or scrambled oligos for at least 4 days) exhibited spontaneous Ca2+ transients (measured with fura 2). The sustained (''diastolic'') Ca2+ concentration in the cytosol ([Ca2+](cyt)) of control cells was unaffected by cyclopiazonic acid (CPA) plus caffeine (Caf), which promote depletion of sarcoplasmic reticular Ca2+ stores, but [Ca2+](cyt) rose in control cells when external Na+ was removed. In contrast, similar to 60% of cells treated with AS-oligos for at least 4 days did not exhibit spontaneous Ca2+ transients or respond to Na+-free medium; however, CPA + Caf did induce a prolonged elevation in [Ca2+](cyt) in these cells. In all cells, 50 mM K+ increased [Ca2+](cyt). NCX protein was reduced by similar to 50% in cells treated with AS-oligos for 7 days but was not reduced after only 2 days. These biochemical data are consistent with the physiological evidence of NCX knockdown in similar to 60% of cells.

L11 ANSWER 1 OF 7 SCISEARCH COPYRIGHT 2002 ISI (R)

ACCESSION NUMBER:

2001:939497 SCISEARCH

THE GENUINE ARTICLE: 491RE

TITLE:

Human manganese superoxide

dismutase is specifically inhibited by antisense oligonucleotide MnSOD in human

breast cancer cells.

AUTHOR:

Weydert C J (Reprint); Smith B B; Oberley L

CORPORATE SOURCE:

Univ Iowa, Iowa City, IA 52242 USA

COUNTRY OF AUTHOR:

SOURCE:

CLINICAL CANCER RESEARCH, (NOV 2001) Vol. 7, No. 11, Supp.

[S], pp. 3681S-3681S. MA 137.

Publisher: AMER ASSOC CANCER RESEARCH, PO BOX 11806,

BIRMINGHAM, AL 35202 USA.

ISSN: 1078-0432. Conference; Journal

DOCUMENT TYPE:

LANGUAGE:

English

REFERENCE COUNT:

L11 ANSWER 2 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1

ACCESSION NUMBER:

2001:138582 BIOSIS

DOCUMENT NUMBER:

PREV200100138582

TITLE: Genes regulated in human breast cancer cells overexpressing

manganese-containing superoxide dismutase.

AUTHOR(S): Li, Zhongkui; Khaletskiy, Alexander; Wang, Jianyi; Wong,

Jeffrey Y. C.; Oberley, Larry W.; Li, Jian-Jian

(1)

CORPORATE SOURCE: (1) Department of Radiation Research, Beckman Research

Institute, City of Hope National Medical Center, 1500 Duarte Road, H115 Halper South Building, Duarte, CA,

91010-3000: jjli@coh.org USA

SOURCE: Free Radical Biology & Medicine, (February 1, 2001) Vol.

30, No. 3, pp. 260-267. print.

ISSN: 0891-5849.

DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

AB The mitochondrial antioxidant enzyme manganese-containing superoxide

dismutase (MnSOD) functions as a tumor suppressor gene.

Reconstitution of MnSOD expression in several human cancer cell lines leads to reversion of malignancy and induces a resistant phenotype to the cytotoxic effects of TNF and hyperthermia. The signaling pathways that underlie these phenotypic changes in MnSOD-overexpressing cells are unknown, although alterations in the activity of several redox-sensitive transcription factors, including AP-1 and NF-kappaB, have been observed. To determine the downstream signaling molecules involved in MnSOD-induced cell resistant phenotype, in the present study we analyzed the expression profile of several groups of genes related to stress response, DNA repair, and apoptosis, in a human breast cancer MCF-7 cell line overexpressing MnSOD (MCF+SOD). Of 588 genes examined, 5 (0.85%) were up-regulated (2-42-fold), and 11 (1.9%) were down-regulated (2-33-fold) in the MCF+sop cells compared to the parental MCF-7 cells. The five up-regulated genes were MET, GADD153, CD9, alpha-catenin and plakoglobin. The genes with the most significant down-regulation included: vascular endothelial growth factor receptor 1, TNF-alpha converting enzyme, and interleukin-1beta. GADD153 (involved in the repair of DNA double strand breaks) showed a 33-fold increase in microarray analysis and these results were confirmed by RT-PCR. To further determine the specificity in MnSOD-induced gene regulation, MCF+ son cells were stably transfected with an antisense MnSOD sequence whose expression was controlled by a tetracycline-inducible regulator. Expression of three up-regulated genes was measured after induction of antisense MnSOD expression. Interestingly, expression level of GADD153 but not MET or CD9 was reduced 24 h after antisense MnSOD induction. Together, these results suggest that reconstitution of MnSOD in tumor cells can specifically modulate the expression of down-stream effector genes. GADD153 and other elements observed in the MCF+sop cells may play a key role in signaling the MnSOD-induced cell

L11 ANSWER 3 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2001:37530 BIOSIS DOCUMENT NUMBER: PREV200100037530

phenotypic change.

TITLE: An antisense oligodeoxynucleotide to human

MnSOD effectively blocks expression and enzymatic

activity.

AUTHOR(S): Weydert, Christine J. (1); Smith, Benjamin B. (1)

; Oberley, Larry W. (1)

CORPORATE SOURCE: (1) Free Radical and Radiation Biology, University of Iowa,

Iowa City, IA, 52242 USA

SOURCE: Free Radical Biology & Medicine, (2000) Vol. 29, No.

Supplement 1, pp. S136. print.

Meeting Info.: 7th Annual Meeting of the Oxygen Society San

Diego, CA, USA November 16-20, 2000

ISSN: 0891-5849.

DOCUMENT TYPE:

LANGUAGE:

Conference English

SUMMARY LANGUAGE:

English

L11 ANSWER 4 OF 7 ACCESSION NUMBER:

BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2 1998:183620 BIOSIS

DOCUMENT NUMBER:

PREV199800183620

TITLE:

SOURCE:

Manganese superoxide dismutase

protects nNOS neurons from NMDA and nitric oxide-mediated

neurotoxicity.

AUTHOR(S):

Gonzalez-Zulueta, Mirella; Ensz, Lisa M.; Mukhina, Galina; Lebovitz, Russell M.; Zwacka, Ral M.; F.engelhardt, John;

Oberley, Laary W.; Dawson, Valina L.; Dawson, Ted

M.(1)

CORPORATE SOURCE:

(1) Dep. Neurol. Neurosci., Johns Hopkins Univ., Sch. Med., 650 N. Wolfe St., Pasthology 2-210, Baltimore, MD 21287 USA Journal of Neuroscience, (March 15, 1998) Vol. 18, No. 6,

pp. 2040-2055. ISSN: 0270-6474.

DOCUMENT TYPE:

Article English

LANGUAGE:

Neuronal nitric oxide synthase (nNOS) neurons kill adjacent neurons through the action of NMDA-glutamate receptor activation, although they remain relatively resistant to the toxic effects of NMDA and NO. The molecular basis of the resistance of nNOS neurons to toxic insults is unknown. To begin to understand the molecular mechanisms of the resistance of nNOS neurons, we developed a pheochromacytoma-derived cell line (PC12) that is resistant to the toxic effects of NO. We found through serial analysis of gene expression (SAGE) that manganese superoxide dismutase (MNnSOD) is enriched in the NO-resistant PC12 cell-derived line (PC12-R). Antisense MnSOD renders PC12-R cells sensitive to NO toxicity and increases the sensitivity to NO in the parental, NO-sensitive PC12 line (PC12-S). Adenoviral transfer of MnSOD protects PC12-S cells against NO toxicity. We extended these studies to cortical cultures and showed that MnSOD is enriched in nNOS neurons and that antisense MnSOD renders nNOS neurons susceptible to NMDA neurotoxicity, although it has little effect on the overall susceptibility of cortical neurons to NMDA toxicity. Overexpression of MnSOD provides dramatic protection against -NMDA and NO toxicity in cortical cultures, but not against kainate or AMPA neurotoxicity. Furthermore, nNOS neurons from MnsoD-/- mice are markedly sensitive to NMDA toxicity. Adenoviral transfer of MnSOD to MnSOD-/- cultures

restores resistance of nNOS neurons to NMDA toxicity. Thus, MnSOD is a major protective protein that appears to be essential for the resistance of nNOS neurons in cortical cultures to NMDA mediated neurotoxicity.

ACCESSION NUMBER:

L11 ANSWER 5 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. DUPLICATE 3 1995:547418 BIOSIS

DOCUMENT NUMBER:

PREV199698561718

TITLE:

The use of RT-PCR to distinguish between plasmid

MnSOD transcripts and endogenous MnSOD

mRNA.

AUTHOR(S):

Li, Jian-Jian; Domann, Frederick; Oberley, Larry W.

(1)

CORPORATE SOURCE:

(1) Radiation Res. Lab., 14 Med. Lab., The Univ. Iowa, Iowa

City, IA 52242 USA

SOURCE:

Biochemical and Biophysical Research Communications, (1995)

Vol. 216, No. 2, pp. 610-618.

ISSN: 0006-291X.

DOCUMENT TYPE:

Article

LANGUAGE:

English

We report here a convenient RT-PCR method to distinguish plasmid human MnSOD cDNA transcripts from the endogenous MnSOD gene products without engineering the cDNA insert. When a specific antisense primer for the carrier vector sequence was paired with a sense primer for the human MnsoD cDNA in RT-PCR analysis, a unique amplicon with the expected size was generated in MnSOD cDNA transfected cells but not in the wild type or vector control cells. The same primers were also used in genomic DNA-PCR to demonstrate genomic incorporation of cDNA in stably transfected cells. This method is convenient and specific in determining exogenous cDNA incorporation and expression in transfectants especially when transcripts of cDNA are difficult to separate from the endogenous mRNA by other methods.

L11 ANSWER 6 OF 7

BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. DUPLICATE 4

ACCESSION NUMBER:

1993:276279 BIOSIS

DOCUMENT NUMBER:

PREV199396006504

TITLE:

Increased manganese superoxide

dismutase expression suppresses the malignant

phenotype of human melanoma cells.

AUTHOR(S):

Church, Susan L.; Grant, James W.; Ridnour, Lisa A.; Oberley, Larry W.; Swanson, Paul E.; Meltzer, Paul

S.; Trent, Jeffrey M. (1)

CORPORATE SOURCE:

(1) Dep. Radiation Oncol., Univ. Mich. Sch. Med., MSRBII

C560 1150 West Medical Center Dr., Ann Arbor, MI 48109-0668

USA

SOURCE:

Proceedings of the National Academy of Sciences of the United States of America, (1993) Vol. 90, No. 7, pp.

3113-3117.

ISSN: 0027-8424.

DOCUMENT TYPE: LANGUAGE:

Article English

Introduction of a normal human chromosome 6 into human melanoma cell lines results in suppression of tumorigenicity. This suggests that a gene(s) on chromosome 6 controls the malignant phenotype of human melanoma. Because antioxidants can suppress the tumor-promotion phase of carcinogenesis, and because the antioxidant enzyme manganese superoxide dismutase (MnSOD) has been localized to a region of chromosome 6 frequently lost in melanomas, we have examined the effect of transfecting sense and antisense human MnSOD cDNAs into melanoma cell lines. Cell lines expressing abundant (+)-sense MnSOD-5 cDNAs significantly altered their phenotype in culture and lost their ability to form colonies in soft agar and tumors in nude mice. In contrast, the introduction of antisense MnSOD or +psv-2neo had no effect on melanoma tumorigenicity. These findings indicate that stable transfection of MnsoD cDNA into melanoma cell lines exerts a biological effect that mimics that observed after introduction of an entire human chromosome 6.

ACCESSION NUMBER:

L11 ANSWER 7 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. DUPLICATE 5

1989:514250 BIOSIS

DOCUMENT NUMBER:

BA88:130393

TITLE:

MANGANOUS SUPEROXIDE DISMUTASE IS ESSENTIAL FOR CELLULAR

RESISTANCE TO CYTOTOXICITY OF TUMOR NECROSIS FACTOR.

AUTHOR(S): CORPORATE SOURCE:

WONG G H W; ELWELL J H; OBERLEY L W; GOEDDEL D V DEP. MOL. BIOL., GENENTECH, INC., 460 POINT SAN BRUNO,

BOULEVARD, SOUTH SAN FRANCISCO, CALIF. 94080.

SOURCE:

CELL, (1989) 58 (5), 923-932.

CODEN: CELLB5. ISSN: 0092-8674.

OH573 C38

FILE SEGMENT:

BA; OLD

LANGUAGE: English

Tumor necrosis factor (TNF) induces the synthesis of protein(s) that can protect cells against subsequent killing by TNF in the presence of

cycloheximide. Here we demonstrate that manganous superoxide dismutase (MnSOD), a mitochondrial enzyme involved in the scavenging of superoxide radicals (O2-), is such a protein. Overexpression of MnSOD confers increased resistance to TNF plus cycloheximide on the 293 human embryonic kidney cell line. Conversely, expression of antisense MnSOD RNA renders these cells sensitive to TNF even in the absence of cycloheximide. The TNF sensitivity of the ME-180 human cervical carcinoma cell line can also be modulated through expression of sense and antisense MnSOD RNAs. These data identify MnSOD as an important determinant of cellular resistance to TNF and implicate motochondrially generated O2- as a key component of TNF-mediated tumor cell killing.

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